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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/840,434		04/23/2001	John A. Hummel	DKT 99083	4174
23446	7590	01/13/2004		EXAMINER	
		LD & MALLOY, I	JOHNSON, VICKY A		
500 WEST MADISON STREET SUITE 3400				ART UNIT	PAPER NUMBER
CHICAGO	, IL 6066	51	3682		
				DATE MAILED: 01/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)				
	09/840,434	HUMMEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vicky A. Johnson	3682				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a repl within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 29 C	October 2003 .					
	is action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under the	nce except for formal matte					
Disposition of Claims						
4) Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
9)☐ The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep		Evaminer				
Applicant may not request that any objection to the	,					
11) The proposed drawing correction filed on						
If approved, corrected drawings are required in rep						
12) The oath or declaration is objected to by the Exa	•					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	I19(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. ☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the certified action for a list of the certif	reau (PCT Rule 17.2(a)).	_				
14) Acknowledgment is made of a claim for domestic	•					
a) The translation of the foreign language pro-	visional application has bee	n received.				
15) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. §	§ 120 and/or 121.				
Attachment(s)	A) (a	mmanı (DTO 412) Damar Na(a)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichikawa (US 5,989,140).

Ichikawa et al disclose a silent chain and sprocket assembly wherein the teeth (6a) o the back side sprocket (6) are low profile protrusions extending outwardly from the sprocket and the links of the inner and outer link rows form a surface that extends along the chain direction of the links a distance that approximates the distance from a center of a member joining the link to one adjacent row of links to a center of and member joining the link to another adjacent row links (see Fig 3) overlies and contacts the sprocket protrusions at a back side of the chain (col. 2 lines 17-42). The links have a surface that defines two teeth extending from the link at the front side of the chain, the low profile protrusions (6a) are formed by two sprocket surfaces, the sides of the teeth that meet the protrusion and extend oppositely from each other a distance that is approximately the length of the back side surface of the link plate.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa (US 5,989,140) in view of Aydelott (US 270,723).

Ichikawa et al disclose a silent chain and sprocket assembly as described above, but does not disclose the back side sprocket surfaces as being generally flat that extend from the sprocket near their first and second ends.

Aydelott disclose a sprocket with generally flat sprocket surfaces that extend from the sprocket near the first and second ends (see Fig 3).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the assembly of Ichikawa et al to include the sprocket of Aydelott in order to as it is old in the art to utilize a sprocket with generally flat sprocket surfaces that extend from the sprocket near their first and second ends in a chain and sprocket assembly.

Response to Amendment

Some further comments regarding the amendment filed June 30, 2003 are deemed appropriate.

The applicant argues that the surfaces F and f do not conform to the surface 6A of the sprocket and do not contact the surface 6A along a majority of the length of the surfaces F and f.

In the Ichikawa et al reference states that "...the tops 6A of the arcuate teeth abut and support the flat faces F...and the flat faces f..." and these surfaces are found

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between a center of a member joining the link to one adjacent row of links and a center of a member joining the link to an adjacent row of links, and as seen in figure 1 is the surfaces are contacting the sprocket along the majority of the length of the surface as claimed.

In column 2 lines 43-53 the sub-teeth, the articular train plates, and the guide train plates come into engagement with the sprocket and the transfer of power is performed. Therefore, the Ichikawa et al reference meets the limitations of the claims.

The Applicant's remarks have been accorded due consideration, however, they are not deemed fully persuasive.

Conclusion

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (703) 305-3013. The examiner can normally be reached on Monday-Thursday (7:00a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

vaj vay 1/11/64

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600